

ABSTRACT OF THE DISCLOSURE

A bi-directional dc/dc power converter having a neutral terminal includes a first dc voltage terminal set and a second dc voltage terminal set. When the direction of power flow is from the first dc voltage terminal set to the second dc voltage terminal set, the output voltage of power converter is the double of the input dc voltage. When the power flow direction is in reverse from the second dc voltage terminal set to the first dc voltage terminal set, the output voltage of power converter is half of the input dc voltage in this power flow direction.